TRANSLATIONAL GENOMICS RESEARCH INSTITUTE

The Mission

To make and translate genomic discoveries into advances in human health.

Facing Alzheimer's Together

A devastating, debilitating condition, Alzheimer's disease (AD) has become a worldwide epidemic, affecting nearly 4.5 million in the U.S. alone. This horrific disease causes the gradual degradation of brain cells and is currently a leading cause of dementia. Advancing at a wide range of rates, the duration of the condition can vary from three to twenty years. Memory and thinking skills are often the first to be impaired, eventually restricting the patient to assisted living. Although much of AD remains a mystery, TGen's Alzheimer's research team has devoted its research to the diagnosis and treatment of this tragic affliction. Current research endeavors include:

- Identification of genes predisposing to Alzheimer's disease.
- The most comprehensive expression profiling research program in AD to date.
- Identifying the cause of Alzheimer's neuropathology.
- A whole-genome association study of over 500,000 SNPs across thousands of individuals with AD.

About Translational Genomics Research Institute

The Translational Genomics Research Institute (TGen) is a non-profit organization dedicated to conducting groundbreaking research with life changing results. Research at TGen is focused on helping patients with diseases such as cancer, neurological disorders and diabetes. The ability to better diagnose, treat, and ultimately cure disease in the 21st century will depend on two things: understanding the genetic cause of disease, and the ability to translate this information into new diagnostic tests and therapeutics. We now know more about genes than ever before and this increased understanding provides scientists with an unparalleled opportunity to study and understand diseases. Thanks to the mapping of the human genome, clinical practice is shifting from treatment based on symptoms to treatment based on each person's unique genetic make-up — in other words, personalized medicine. Translational research is the process of translating basic scientific discoveries into clinical applications such as new diagnostics and treatments. Translational research serves as a bridge between lab bench discoveries and the patient bedside. Information collected at the patient bedside can circle back to the laboratory to fuel additional discoveries.

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